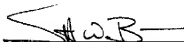


I hereby certify that this correspondence is being filed electronically with the U.S. Patent and Trademark Office on July 11, 2008.

Scott W. Brim, Reg. No. 51,500

  
Signature \_\_\_\_\_ July 11, 2008  
Date \_\_\_\_\_

Attorney Docket No. 8285/375

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Dianna I. Tiliks et al.

Serial No.: 09/741,734

Filing Date: December 19, 2000

For: METHOD AND SYSTEM FOR  
DUAL RINGING OF A CENTREX  
LINE AND A WIRELESS  
EXTENSION OF THE CENTREX  
LINE

)  
)  
) Examiner: Miller, Brandon J.

) Group Art Unit No.: 2617  
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**APPEAL BRIEF**

Mail Stop Appeal Brief - Patents  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In response to the final Office Action mailed July 17, 2007, and the Notice of Panel Decision from Pre-Appeal Brief Review mailed May 13, 2008, Applicant respectfully appeals the final rejection entered by the Examiner and provide this Appeal Brief in support thereof. The fee required under 37 CFR §§ 41.20(b)(2) and 41.37(a)(2) is included herewith.

**I. Real Party in Interest**

AT&T Intellectual Property 1, L.P. is the real party in interest.

**II. Related Appeals and Interferences**

None.

**III. Status of Claims**

Claims 1-22 are pending, stand rejected, and are the subject of this appeal.

**IV. Status of Amendments**

Applicant has not filed any amendments subsequent to the final rejection.

**V. Summary of Claimed Subject Matter**

The current application is directed to methods and systems for dual ringing of a Centrex line and a wireless extension of the Centrex line. Independent claim 1 is directed to a method for dual ringing a Centrex line and a wireless extension of the Centrex line using an advanced intelligent telecommunication network comprising a service signal point and a service node. Specifically, claim 1 recites receiving a call at a service signal point (SSP) assigned to a Centrex line. (See Fig. 2 and page 7, lines 3-4). The call is routed from the SSP to a service node coupled with the SSP. (See page 8, lines 8-9). The service node initiates a first call to a wireless extension of the Centrex line and a second call to the Centrex line. (See Fig. 2 and page 8, lines 12-19). The wireless extension of the Centrex line provides extension dialing when the wireless extension line is within a limited service area defined for a Centrex customer premises area. (See page 5, lines 15-30).

Independent claim 5 is directed to a method for dual ringing of a Centrex line and a wireless extension of the Centrex line using an advanced intelligent telecommunication network comprising a service signal point, a service control point, and a service node. Specifically, claim 5 recites receiving a call at a service signal point (SSP) assigned to a Centrex line. (See Fig. 2 and page 7, lines 3-4). Processing of the call is suspended and a query is launched to a service control point (SCP) coupled with

the SSP. (See page 7, lines 10-12). In response to the query, it is determined whether a wireless extension of the Centrex line is available. (See page 7, lines 16-18). If the wireless extension of the Centrex line is available, a routing message is launched from the SCP to the SSP instructing the SSP route the call to a service node coupled with the SSP. (See page 8, lines 8-19). The call is routed from the SSP to the service node. (See page 8, lines 8-19). The service node initiates a first call to the wireless extension of the Centrex line and initiates a second call to the Centrex line. (See Fig. 2 and page 8, lines 12-19). The wireless extension of the Centrex line provides extension dialing when the wireless extension of the Centrex line is within a limited service area defined for a Centrex customer premises area. (See page 5, lines 15-30).

Independent claim 15 is directed to a system for dual ringing of a Centrex line and a wireless extension of the Centrex line. Specifically, claim 15 recites a system comprising a service signal point (SSP), a service control point (SCP), and a service node. (See Fig. 1; page 3, lines 9-13). The SSP is assigned to a Centrex line and is operative to receive a call placed to the Centrex line, suspend processing of the call, and launch a query. (See page 3, lines 22-25). The SCP is coupled with the SSP and is operative to receive the query launched from the SSP and to determine whether a wireless extension of the Centrex line is available. (See page 7, lines 16-18). The service node is coupled with the SSP and is operative to initiate a first call to the wireless extension of the Centrex line and to initiate a second call to the Centrex line in response to the wireless extension of the Centrex line being available. (See Fig. 2 and page 8, lines 12-19). The wireless extension of the Centrex line provides extension dialing when the wireless extension of the Centrex line is within a limited service area defined for a Centrex customer premises area. (See page 5, lines 15-30).

Independent claim 18 is directed to a method for dual ringing of a Centrex line and a wireless extension of the Centrex line. Specifically, claim 18 recites receiving a call at a switch assigned to a Centrex line. (See page 7, lines 3-4). A network element that is separate from the switch initiates a call to the Centrex line. (See Fig. 2; page 2, lines 24-26). The network element that is separate from the switch initiates a call to a wireless extension of the Centrex line. (See Fig. 2 and page 8, lines 12-19). The

wireless extension of the Centrex line provides dialing when the wireless extension of the Centrex line is within a limited service area defined for a Centrex customer premises area. (See page 5, lines 15-30).

#### **VI. Grounds of Rejections to Be Reviewed on Appeal**

1. Claims 1-22 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Pat. No. 5,963,864 ("O'Neil") in view of U.S. Pat. No. 6,970,719 ("McConnell").

#### **VII. Argument**

##### **A. The Proposed Combinations Do Not Render Claims 1 and 5 Unpatentable**

Independent claims 1 and 5 recite a service node initiating a first call to a wireless extension of a Centrex line and a second call to the Centrex line. O'Neil and McConnell both fail to teach this element.

O'Neil is directed to a method and system for automatically connecting telephone calls to multiple devices having different directory numbers. In O'Neil, a subscriber may associate a telephone number of a wireless device with a telephone number of a wireline number so that when a call is placed to the wireline number, a first call may be initiated to the wireless device and a second call may be initiated to the wireline number. O'Neil fails to teach initiating a call to a wireline number and initiating another call to a wireless extension of the wireline number. In O'Neil, the telephone number of the wireless device is not a wireless extension of the wireline number, but is simply a separate telephone number of a wireless device that a user has associated with the wireline number. Further, the Examiner has admitted that O'Neil fails to teach a Centrex line. Thus, O'Neil necessarily does not disclose a service node initiating a first call to a wireless extension of a Centrex line and a second call to the Centrex line as recited in claims 1 and 5.

Like O'Neil, McConnell also fails to teach a service node initiating a first call to a wireless extension of a Centrex line and a second call to the Centrex line. McConnell is

directed to a private wireless network integrated with a public wireless network. In McConnell, a mobile device may be used as a cellular phone when outside a private network wireless coverage, and be used as an extension of a Centrex line when within the private network wireless coverage. McConnell does not teach dual ringing such that when a telephone call is placed to a Centrex line, a service node initiates a first call to a wireless extension of the Centrex line and a second call to the Centrex line. In McConnell, a call is only initiated to the mobile device. Therefore, while McConnell may teach a mobile device that may act as an extension of a Centrex line, McConnell fails to teach a service node initiating a first call to a wireless extension of a Centrex line and a second call to the Centrex line.

Because O'Neil and McConnell both fail to teach at least a service node initiating a first call to a wireless extension of a Centrex line and a second call to the Centrex line, the proposed combinations of O'Neil and McConnell necessarily do not render independent claims 1 and 5, or any claims that depends on claims 1 and 5, unpatentable.

**B. The Proposed Combinations Do Not Render Claim 15 Unpatentable**

Independent claim 15 recites a service node coupled with a service signal point, the service node operative to initiate a first call to a wireless extension of a Centrex line and a second call to the Centrex line in response to the wireless extension of the Centrex line being available. As discussed above, O'Neil and McConnell both fail to teach a service node initiating a first call to a wireless extension of a Centrex line and a second call to the Centrex line. For at least this reason, the proposed combinations of O'Neil and McConnell necessarily do not render independent claim 15, or any claim that depends on claim 15, unpatentable.

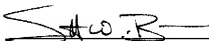
**C. The Proposed Combinations Do Not Render Claim 18 Unpatentable**

Independent claim 18 recites a network element that is separate from a switch initiating a call to a Centrex line and a call to wireless extension of the Centrex line. As discussed above, O'Neil and McConnell both fail to teach this element. For at least this reason, the proposed combinations of O'Neil and McConnell necessarily do not render independent claim 18, or any claim that depends on claim 18, unpatentable.

**VIII. Conclusion**

For the reasons set forth above, Applicants respectfully submit that all of the pending claims are patentable over the applied references. Accordingly, Applicants respectfully request removal of the pending rejections.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "S.W. Brim", is written over a horizontal line.

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## **IX. Claims Appendix**

1. (Previously Presented) A method for dual ringing of a Centrex line and a wireless extension of the Centrex line using an advanced intelligent telecommunication network comprising a service signal point and a service node, the method comprising:

- (a) receiving a call at a service signal point (SSP) assigned to a Centrex line;
- (b) routing the call from the SSP to a service node coupled with the SSP;

and

(c) with the service node, initiating a first call to a wireless extension of the Centrex line and a second call to the Centrex line;

wherein the wireless extension of the Centrex line provides extension dialing when the wireless extension of the Centrex line is within a limited service area defined for a Centrex customer premises area.

2. (Original) The invention of Claim 1 further comprising:

(d) in response to either the first or second call being answered, dropping the other call.

3. (Original) The invention of Claim 1 further comprising:

(d) if neither the first nor second call is answered within a time period, routing the call to a voicemail system associated with the Centrex line.

4. (Previously Presented) The invention of Claim 1 further comprising determining whether the wireless extension of the Centrex line is available, and wherein (c) is performed only if the wireless extension of the Centrex line is available.

5. (Previously Presented) A method for dual ringing of a Centrex line and a wireless extension of the Centrex line using an advanced intelligent telecommunication network comprising a service signal point, a service control point, and a service node, the method comprising:

- (a) receiving a call at a service signal point (SSP) assigned to a Centrex line;

- (b) suspending processing of the call and launching a query to a service control point (SCP) coupled with the SSP;
- (c) in response to the query, determining whether a wireless extension of the Centrex line is available; and
- (d) if the wireless extension of the Centrex line is available:
  - (d1) launching a routing message from the SCP to the SSP instructing the SSP to route the call to a service node coupled with the SSP;
  - (d2) routing the call from the SSP to the service node; and
  - (d3) with the service node, initiating a first call to the wireless extension of the Centrex line and a second call to the Centrex line;wherein the wireless extension of the Centrex line provides extension dialing when the wireless extension of the Centrex line is within a limited service area defined for a Centrex customer premises area.

6. (Original) The invention of Claim 5 further comprising:

- (e) in response to either the first or second call being answered, dropping the other call.

7. (Original) The invention of Claim 5 further comprising:

- (e) if neither the first nor second call is answered within a time period, routing the call to a voicemail system associated with the Centrex line.

8. (Previously Presented) The invention of Claim 5 further comprising:

- (e) if the wireless extension of the Centrex line is not available:
  - (e1) launching a transmit message from the SCP to the SSP instructing the SSP to transmit the call to the Centrex line; and
  - (e2) transmitting the call from the SSP to the Centrex line.

9. (Original) The invention of Claim 5, wherein the call received in (a) comprises a destination number assigned to the Centrex line.



10. (Original) The invention of Claim 5 further comprising, prior to (b), detecting a terminating attempt trigger assigned to the Centrex line.

11. (Original) The invention of Claim 5 further comprising, prior to (c), determining whether a dual ringing service is enabled.

12. (Previously Presented) The invention of Claim 5, wherein the wireless extension of the Centrex line is part of a wireless network, and wherein (c) comprises sending a request for availability information of the wireless extension of the Centrex line from the SCP to the wireless network.

13. (Previously Presented) The invention of Claim 5, wherein the wireless extension of the Centrex line is part of a wireless network, and wherein (c) comprises:

(c1) sending a request for availability information of the wireless extension of the Centrex line from the SCP to a home location register (HLR) in the wireless network; and

(c2) sending the availability information from the HLR to the SCP.

14. (Original) The invention of Claim 5, wherein (d3) comprises simultaneously initiating the first and second calls.

15. (Previously Presented) A system for dual ringing of a Centrex line and a wireless extension of the Centrex line, the system comprising:

a service signal point (SSP) assigned to a Centrex line, the SSP operative to receive a call placed to the Centrex line, suspend processing of the call, and launch a query;

a service control point (SCP) coupled with the SSP, the SCP operative to receive the query launched from the SSP and determine whether a wireless extension of the Centrex line is available; and

a service node coupled with the SSP, the service node operative to initiate a first call to the wireless extension of the Centrex line and a second call to the Centrex line in response to the wireless extension of the Centrex line being available;

wherein the wireless extension of the Centrex line provides extension dialing when the wireless extension of the Centrex line is within a limited service area defined for a Centrex customer premises area.

16. (Original) The invention of Claim 15, wherein the service node is further operative to drop the first call in response to the second call being answered and further operative to drop the second call in response to the first call being answered.

17. (Previously Presented) The invention of Claim 15 further comprising a home location register (HLR) coupled with the SCP, wherein the SCP is further operative to determine whether the wireless extension of the Centrex line is available by sending a request for availability information of the wireless extension of the Centrex line to the HLR.

18. (Previously Presented) A method for dual ringing of a Centrex line and a wireless extension of the Centrex line, the method comprising:

- (a) receiving a call at a switch assigned to a Centrex line;
- (b) with a network element separate from the switch, initiating a call to the Centrex line; and
- (c) with the network element separate from the switch, initiating a call to a

wireless extension of the Centrex line;

wherein the wireless extension of the Centrex line provides extension dialing when the wireless extension of the Centrex line is within a limited service area defined for a Centrex customer premises area.

19. (Previously Presented) The invention of Claim 18, wherein acts (b) and (c) are performed in response to the wireless extension of the Centrex line being available.

20. (Original) The invention of Claim 18, wherein acts (b) and (c) are performed simultaneously.
21. (Original) The invention of Claim 18, wherein the network element comprises a service node.
22. (Previously Presented) The invention of Claim 18 further comprising dropping the call to one of the Centrex line or the wireless extension of the Centrex line in response to the other answering the call.

**X. Evidence Appendix**

None.

**XI. Related Proceedings Appendix**

None.